

Claims

- [c1] A secondary battery control circuit comprising:
a voltage detection section for detecting a voltage of a secondary battery;
a temperature detection section for detecting a temperature of the secondary battery; and
a control section for controlling charging/discharging of the secondary battery based on a voltage detected by the voltage detection section and a temperature detected by the temperature detection section, wherein
in a case where the voltage detected by the voltage detection section is equal to or greater than a predetermined first voltage value, and the temperature detected by the temperature detection section is equal to or greater than a predetermined temperature, the control section discharges the secondary battery until the voltage of the secondary battery reaches a predetermined second voltage value.
- [c2] A secondary battery control circuit according to claim 1, wherein the predetermined first voltage value and the predetermined second voltage value are detected by a single circuit having a hysteresis.

- [c3] A secondary battery control circuit according to claim 1, wherein either the predetermined first voltage value or the predetermined second voltage value is equal to an overcharge releasing voltage value.
- [c4] A secondary battery control circuit according to claim 1, wherein a discharge canceling condition for the secondary battery includes a temperature condition for the secondary battery.
- [c5] A secondary battery control circuit according to claim 1, wherein the secondary battery control circuit is formed on a single semiconductor chip.
- [c6] A secondary battery control circuit according to claim 5, wherein the single semiconductor chip is enclosed in a sealing section of the secondary battery.